

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.

Freeform Search

Database:	US Pre-Grant Publication Full-Text Database
	US Patents Full-Text Database
	US OCR Full-Text Database
	EPO Abstracts Database
	JPO Abstracts Database
	Derwent World Patents Index
	IBM Technical Disclosure Bulletins

Term:	<input type="text"/>
--------------	----------------------

Display:	<input type="text" value="10"/>	Documents in Display Format:	<input type="text" value="CIT"/>	Starting with Number	<input type="text" value="1"/>
-----------------	---------------------------------	-------------------------------------	----------------------------------	-----------------------------	--------------------------------

Generate:	<input type="radio"/> Hit List	<input checked="" type="radio"/> Hit Count	<input type="radio"/> Side by Side	<input type="radio"/> Image
------------------	--------------------------------	--	------------------------------------	-----------------------------

Search History

DATE: Friday, October 29, 2004 [Printable Copy](#) [Create Case](#)

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side			result set

DB=USPT; PLUR=YES; OP=ADJ

<u>L1</u>	nagao-kenji.in.	9	<u>L1</u>
-----------	-----------------	---	-----------

END OF SEARCH HISTORY

Hit List

Search Results - Record(s) 1 through 9 of 9 returned.

☐ 1. Document ID: US 6647139 B1

L1: Entry 1 of 9

File: USPT

Nov 11, 2003

US-PAT-NO: 6647139

DOCUMENT-IDENTIFIER: US 6647139 B1

**** See image for Certificate of Correction ****

TITLE: Method of object recognition, apparatus of the same and recording medium therefor

DATE-ISSUED: November 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kunii; Mihoko	Tokyo			JP
Nagao; Kenji	Kanagawa			JP

US-CL-CURRENT: 382/159; 382/190

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	----------	----------	--------	------	---------

☐ 2. Document ID: US 6628811 B1

L1: Entry 2 of 9

File: USPT

Sep 30, 2003

US-PAT-NO: 6628811

DOCUMENT-IDENTIFIER: US 6628811 B1

TITLE: METHOD AND APPARATUS FOR RECOGNIZING IMAGE PATTERN, METHOD AND APPARATUS FOR JUDGING IDENTITY OF IMAGE PATTERNS, RECORDING MEDIUM FOR RECORDING THE PATTERN RECOGNIZING METHOD AND RECORDING MEDIUM FOR RECORDING THE PATTERN IDENTITY JUDGING METHOD

DATE-ISSUED: September 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nagao; Kenji	Yokohama			JP
Soma; Masaki	Yokohama			JP

US-CL-CURRENT: 382/118; 382/190, 382/228, 382/276

h e b b g e e f e e f b e

Full	Title	Citation	Front	Review	Classification	Date	Reference	Examiner	Assistant	Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	----------	-----------	--------	------	---------

☐ 3. Document ID: US 6518345 B2

L1: Entry 3 of 9

File: USPT

Feb 11, 2003

US-PAT-NO: 6518345

DOCUMENT-IDENTIFIER: US 6518345 B2

TITLE: Fire extinguishing composition

DATE-ISSUED: February 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tanaka; Kazunori	Izumi			JP
<u>Nagao; Kenji</u>	Nara			JP
Hashimoto; Yutaka	Sakai			JP

US-CL-CURRENT: 252/8.05

Full	Title	Citation	Front	Review	Classification	Date	Reference	Examiner	Assistant	Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	----------	-----------	--------	------	---------

☐ 4. Document ID: US 6430307 B1

L1: Entry 4 of 9

File: USPT

Aug 6, 2002

US-PAT-NO: 6430307

DOCUMENT-IDENTIFIER: US 6430307 B1

TITLE: Feature extraction system and face image recognition system

DATE-ISSUED: August 6, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Souma; Masaki	Yokohama			JP
<u>Nagao; Kenji</u>	Yokohama			JP

US-CL-CURRENT: 382/118; 382/190, 382/225

Full	Title	Citation	Front	Review	Classification	Date	Reference	Examiner	Assistant	Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	----------	-----------	--------	------	---------

☐ 5. Document ID: US 6345109 B1

L1: Entry 5 of 9

File: USPT

Feb 5, 2002

US-PAT-NO: 6345109

DOCUMENT-IDENTIFIER: US 6345109 B1

TITLE: Face recognition-matching system effective to images obtained in different imaging conditions

DATE-ISSUED: February 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Souma; Masaki	Yokohama			JP
<u>Nagao; Kenji</u>	Yokohama			JP

US-CL-CURRENT: 382/118

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KMC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	----------	----------	--------	-----	---------

☐ 6. Document ID: US 5901244 A

L1: Entry 6 of 9

File: USPT

May 4, 1999

US-PAT-NO: 5901244

DOCUMENT-IDENTIFIER: US 5901244 A

TITLE: Feature extraction system and face image recognition system

DATE-ISSUED: May 4, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Souma; Masaki	Yokohama			JP
<u>Nagao; Kenji</u>	Yokohama			JP

US-CL-CURRENT: 382/190; 382/118, 382/225

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KMC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	----------	----------	--------	-----	---------

☐ 7. Document ID: US 5870507 A

L1: Entry 7 of 9

File: USPT

Feb 9, 1999

US-PAT-NO: 5870507

DOCUMENT-IDENTIFIER: US 5870507 A

TITLE: Rigidity checking method and apparatus with the result freed from the influence of picture resolutions

DATE-ISSUED: February 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Nagao; Kenji</u>	Yokohama			JP
Inaba; Mitsuaki	Tokyo			JP

Kobayakawa; Yuichi

Tokyo

JP

US-CL-CURRENT: 382/286; 382/181

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Alt. Figures	Claims	KVMC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	----------	--------------	--------	------	----------

☐ 8. Document ID: US 5587927 A

L1: Entry 8 of 9

File: USPT

Dec 24, 1996

US-PAT-NO: 5587927

DOCUMENT-IDENTIFIER: US 5587927 A

TITLE: Detecting apparatus for detecting a contour of a moving region in a dynamic image

DATE-ISSUED: December 24, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Nagao; Kenji</u>	Watertown	MA		
Sohma; Masaki	Kawasaki			JP
Ando; Shigeru	Chiba			JP
Kobayakawa; Michihiro	Chigasaki			JP

US-CL-CURRENT: 702/167; 382/236, 702/154

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Alt. Figures	Claims	KVMC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	----------	--------------	--------	------	----------

☐ 9. Document ID: US 5099425 A

L1: Entry 9 of 9

File: USPT

Mar 24, 1992

US-PAT-NO: 5099425

DOCUMENT-IDENTIFIER: US 5099425 A

**** See image for Certificate of Correction ****

TITLE: Method and apparatus for analyzing the semantics and syntax of a sentence or a phrase

DATE-ISSUED: March 24, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kanno; Yuji	Kawasaki			JP
<u>Nagao; Kenji</u>	Kawasaki			JP
Ueda; Kenichi	Tokyo			JP

US-CL-CURRENT: 704/9

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Alt Text	Claims	KMC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	----------	----------	--------	-----	---------

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
-------	---------------------	-------	----------	-----------	---------------

Terms	Documents
nagao-kenji.in.	9

Display Format:

[Previous Page](#) [Next Page](#) [Go to Doc#](#)

IEEE HOME | SEARCH IEEE | SHOP | WEB ACCOUNT | CONTACT IEEE



Membership Publications/Services Standards Conferences Careers/Jobs

IEEE Xplore®
 RELEASE 1.8

 Welcome
 United States Patent and Trademark Office


» Se.

[Help](#) [FAQ](#) [Terms](#) [IEEE Peer Review](#)
[Quick Links](#)

Welcome to IEEE Xplore®

- ☐ Home
- ☐ What Can I Access?
- ☐ Log-out

Tables of Contents

- ☐ Journals & Magazines
- ☐ Conference Proceedings
- ☐ Standards

Search

- ☐ By Author
- ☐ Basic
- ☐ Advanced
- ☐ CrossRef

Member Services

- ☐ Join IEEE
- ☐ Establish IEEE Web Account
- ☐ Access the IEEE Member Digital Library

IEEE Enterprise

- ☐ Access the IEEE Enterprise File Cabinet

Print Format

Your search matched **9** of **1085387** documents.A maximum of **500** results are displayed, **15** to a page, sorted by **Relevance Descending** order.**Refine This Search:**

You may refine your search by editing the current search expression or entering new one in the text box.

(identif* or recogn*) <paragraph> (within <near/5> scatt

☐ Check to search within this result set
Results Key:**JNL** = Journal or Magazine **CNF** = Conference **STD** = Standard**1 A Unifying View of Second-Order Measures of Quality for Signal Classification***Gardner, W.;*

Communications, IEEE Transactions on [legacy, pre - 1988] , Volume: 28 , Iss: 6 , Jun 1980

Pages:807 - 816

[\[Abstract\]](#) [\[PDF Full-Text \(976 KB\)\]](#) **IEEE JNL**
2 Palmprint recognition using Fisher's linear discriminant*Xiang-Qian Wu; Kuan-Quan Wang; David Zhang;*

Machine Learning and Cybernetics, 2003 International Conference on , Volume: 5 , 2-5 Nov. 2003

Pages:3150 - 3154 Vol.5

[\[Abstract\]](#) [\[PDF Full-Text \(373 KB\)\]](#) **IEEE CNF**
3 Multi-class linear feature extraction by nonlinear PCA*Duin, R.P.W.; Loog, M.; Haeb-Umbach, R.;*

Pattern Recognition, 2000. Proceedings. 15th International Conference on , Volume: 2 , 3-7 Sept 2000

Pages:398 - 401 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(284 KB\)\]](#) **IEEE CNF**
4 Face recognition using optimal non-orthogonal wavelet basis evaluation by information complexity*Xiaoling Wang; Hairong Qi;*

Pattern Recognition, 2002. Proceedings. 16th International Conference on , Volume: 1 , 11-15 Aug. 2002

Pages:164 - 167 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(329 KB\)\]](#) [IEEE CNF](#)

5 Recognition using extended multiple discriminant analysis (EMDA) method

Wen-Ming Zheng; Li Zhao; Cai-Rong Zou;

Machine Learning and Cybernetics, 2002. Proceedings. 2002 International Conference on , Volume: 1 , 4-5 Nov. 2002

Pages:121 - 125 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(382 KB\)\]](#) [IEEE CNF](#)

6 A new LDA-based method for face recognition

Yu Bing; Jin Lianfu; Chen Ping;

Pattern Recognition, 2002. Proceedings. 16th International Conference on , Volume: 1 , 11-15 Aug. 2002

Pages:168 - 171 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(371 KB\)\]](#) [IEEE CNF](#)

7 Face recognition using Kernel-based Fisher Discriminant Analysis

Qingshan Liu; Rui Huang; Hanqing Lu; Songde Ma;

Automatic Face and Gesture Recognition, 2002. Proceedings. Fifth IEEE International Conference on , 20-21 May 2002

Pages:205 - 211

[\[Abstract\]](#) [\[PDF Full-Text \(445 KB\)\]](#) [IEEE CNF](#)

8 Smiling faces are better for face recognition

Yacoob, Y.; Davis, L.;

Automatic Face and Gesture Recognition, 2002. Proceedings. Fifth IEEE International Conference on , 20-21 May 2002

Pages:52 - 57

[\[Abstract\]](#) [\[PDF Full-Text \(458 KB\)\]](#) [IEEE CNF](#)

9 Enhanced Fisher linear discriminant models for face recognition

Chengjun Liu; Wechsler, H.;

Pattern Recognition, 1998. Proceedings. Fourteenth International Conference on , Volume: 2 , 16-20 Aug. 1998

Pages:1368 - 1372 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(108 KB\)\]](#) [IEEE CNF](#)

[Home](#) | [Log-out](#) | [Journals](#) | [Conference Proceedings](#) | [Standards](#) | [Search by Author](#) | [Basic Search](#) | [Advanced Search](#) | [Join IEEE](#) | [Web Account](#) | [New this week](#) | [OPAC Linking Information](#) | [Your Feedback](#) | [Technical Support](#) | [Email Alerting](#) | [No Robots Please](#) | [Release Notes](#) | [IEEE Online Publications](#) | [Help](#) | [FAQ](#) | [Terms](#) | [Back to Top](#)

Copyright © 2004 IEEE — All rights reserved

Printed by EAST

UserID: DMariam

Computer: WS07216

Date: 10/29/2004

Time: 09:26

	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current XRef	Retrieval Classif
1	<input type="checkbox"/>	<input type="checkbox"/>	US 6647139 B1	20031111	33	Method of object recognition, apparatus of the same and recording medium therefor	382/159	382/190	<i>Same apparatus</i>
2	<input type="checkbox"/>	<input type="checkbox"/>	US 6567771 B2	20030520	15	Weighted pair-wise scatter to improve linear discriminant analysis	702/189	702/190	
3	<input type="checkbox"/>	<input type="checkbox"/>	US 6405065 B1	20020611	13	Non-invasive in vivo tissue classification using near-infrared measurements	600/310	128/923; 600/473	
4	<input type="checkbox"/>	<input type="checkbox"/>	US 5572624 A	19961105	12	Speech recognition system accommodating different sources	704/256	704/251	

	Type	L #	Hits	Search Text	Dbs	Time Stamp	Comments	Error Definition	Errors
1	IS&R	L1	3251	(382/115,118,159,170,181,190,192,195,197,205,209,218,224,225,228).CCLS.	USPA T	2004/10/2 9 08:54			0
2	BRS	L3	7968	(pattern\$1 or feature\$1 or data or image\$1) same train\$3 same (similar\$5 or match\$3)	USPA T	2004/10/2 9 08:58			0
3	BRS	L4	29	(between near2 class\$2) with scatter\$3	USPA T	2004/10/2 9 09:19			0
4	BRS	L5	8	3 and 4	USPA T	2004/10/2 9 09:01			0
5	BRS	L6	12	4 same (matrice\$1 or matrix)	USPA T	2004/10/2 9 09:03			0
6	BRS	L7	4	6 same (increas\$3 or enlarg\$5 or maxim\$6)	USPA T	2004/10/2 9 09:20			0
7	BRS	L8	16	4 same (within near10 scatter\$3)	USPA T	2004/10/2 9 09:20			0
8	BRS	L9	9	8 same (increas\$3 or enlarg\$5 or maxim\$6)	USPA T	2004/10/2 9 09:20			0
9	BRS	L10	4	9 same (decreas\$3 or reduc\$4 or minim\$5)	USPA T	2004/10/2 9 09:21			0